

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2016 Levee Inspection Results

Reclamation District No. 0017 Mossdale

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles
Unit No. 01 French Camp Slough	Left	1.76

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/5/2016 - 4/5/2016			
DWR Inspector	Richard Willoughby			
Accompanied By	Robert Winter KSN			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		o	o	o
DWR ID	DWR_RD0017_01_s_2013_1				
Comment Code					
Inspector Comment					
LMA has a copy of the manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		o	o	o
DWR ID	DWR_RD0017_01_s_2013_2				
Comment Code					
Inspector Comment					
LMA has adequate flood fight supplies.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		o	o	o
DWR ID	DWR_RD0017_01_s_2013_3				
Comment Code					
Inspector Comment					
District staff are involved in yearly training sponsored by DWR.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.02	Rating **	M	Issue No.	11
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.911386 °	37.915961 °	
			-121.291287 °	-121.320721 °	
DWR ID	DWR_RD0017_01_s_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.03	Rating **	M	Issue No.	10
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.911610 °	37.915961 °	
			-121.291317 °	-121.320721 °	
DWR ID	DWR_RD0017_01_s_2016_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.03	Rating **	M	Issue No.	13
LM End	0.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.911561 °	37.911561 °
				-121.291441 °	-121.291441 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40603 DS_ID:1 EP_NO: 6623 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Marker missing on landward side. Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. FIELD_STRUCT_DESC: 5-inch diameter welded steel natural gas pipeline through the levees, 4.5 feet below the crown, across the channels and overflow area. (Permit No. 6623-1969) FS Date: 2/3/2010					

Photo 1 of 2 : UCIP_SP_2016_40603_38480.jpg



View of waterward side.

LM Start	0.03	Rating **	M	Issue No.	13 (cont)
LM End	0.03	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40603_38479.jpg



View of levee crown at crossing. Marker for line visible on waterward shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.15	Rating **	U	Issue No.	17
LM End	0.15	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.912850 °	37.912850 °	
			-121.292910 °	-121.292910 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46010 DS_ID:72 EP_NO: 15185 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Need to install gasoline markers. FIELD_STRUCT_DESC: 8-inch-diameter soil proofed steel gas main through the left bank levee and under the channel of French Camp Slough. The pipeline has a minimum cover of 5 feet within the overflow areas and under the channel. (Permit No. 15185-1989) FS Date: 5/19/2015					

Photo 1 of 2 : UCIP_SP_2016_46010_74222.jpg



Gas access lid in sidewalk Approximately 200-feet to west of crown.

LM Start	0.15	Rating **	U	Issue No.	17 (cont)
LM End	0.15	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_46010_74221.jpg



WS Slope. No gasoline markers.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.38	Rating **	M	Issue No.	12
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.913158 °	37.913158 °	
			-121.296868 °	-121.296868 °	
DWR ID	DWR_RD0017_01_s_2016_12				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	0.88	Rating **	A/W	Issue No.	6
LM End	0.97	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.915087 °	37.915295 °	
			-121.304833 °	-121.306385 °	
DWR ID	DWR_RD0017_01_s_2013_6				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.31	Rating **	M	Issue No.	14
LM End	1.31	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.915928 °	37.915928 °	
			-121.312471 °	-121.312471 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40604 DS_ID:2 EP_NO: 14992 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection. FIELD_STRUCT_DESC: 1 of 3. 30-inch diameter HDPE sewer force main (SFM). All pipes encased in concrete at approximately 32 feet below levee crown. (Permit No. 14992-1989) FS Date: 2/3/2010					

Photo 1 of 2 : UCIP_SP_2016_40604_38491.jpg



Overview of levee crown at crossing.

LM Start	1.31	Rating **	M	Issue No.	14 (cont)
LM End	1.31	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40604_38489.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.31	Rating **	M	Issue No.	15
LM End	1.31	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.915928 °	37.915928 °
				-121.312471 °	-121.312471 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40605 DS_ID:159 EP_NO: 14992 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection. FIELD_STRUCT_DESC: 2 of 3. A 30-inch diameter HDPE sewer force main (SFM). All pipes encased in concrete at approximately 32 feet below levee crown. (Permit No. 14992-1989) FS Date: 2/3/2010					

Photo 1 of 2 : UCIP_SP_2016_40605_38505.jpg



Overview of levee at crossing.

LM Start	1.31	Rating **	M	Issue No.	15 (cont)
LM End	1.31	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40605_38503.jpg



View of landward toe--established neighborhood.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.31	Rating **	M	Issue No.	16
LM End	1.31	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.915928 °	37.915928 °	
			-121.312471 °	-121.312471 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40606 DS_ID:158 EP_NO: 14992 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection. FIELD_STRUCT_DESC: 3 of 3. A 12-inch diameter HDPE sewer force main (SFM). All pipes encased in concrete at approximately 32 feet below levee crown. (Permit No. 14992-1989) FS Date: 2/3/2010					

Photo 1 of 2 : UCIP_SP_2016_40606_71942.jpg



View of levee crown at crossing.

LM Start	1.31	Rating **	M	Issue No.	16 (cont)
LM End	1.31	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40606_71941.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Reclamation District No. 0017 Mossdale

Waterway		Bank	Unit Miles
Unit No. 02 San Joaquin River		Right	14.27

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/5/2016 - 4/5/2016			
DWR Inspector	Richard Willoughby			
Accompanied By	Robert Winter KSN			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	75
LM End	14.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.915956 °	37.772165 °	
			-121.320735 °	-121.289192 °	
DWR ID	DWR_RD0017_02_s_2016_75				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	74
LM End	14.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.915956 °	37.772167 °	
			-121.320735 °	-121.289095 °	
DWR ID	DWR_RD0017_02_s_2016_74				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.14	Rating **	M	Issue No.	588
LM End	0.14	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.914335 °	37.914335 °
				-121.322387 °	-121.322387 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40628 DS_ID:75 EP_NO: 15093 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Only appurtenances remaining at this location--4 pillings located on waterward side. According to records the pillings were to be removed under a completion maintenance contract. Need to coordinate with owner. FIELD_STRUCT_DESC: 14-inch-diameter pipeline through levee at unknown depth. Per inspector's notes "this crossing is abandoned almost all materials removed including pipes, conduit, and pumphouse. The only items left are 4 pilings which are to be removed under a completion maintenance contract. Approximately 200 feet of reinforced concrete pipe lateral removed in R/W south of crossing". FS Date: 2/3/2010					

Photo 1 of 2 : UCIP_SP_2016_40628_38516.jpg



View of landward side.

LM Start	0.14	Rating **	M	Issue No.	588 (cont)
LM End	0.14	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40628_38515.jpg



View of waterward side--pillings inside channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.77	Rating **	M	Issue No.	77
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.906106°	37.906106°
				-121.323060°	-121.323060°
DWR ID	DWR_RD0017_02_s_2016_77				
Comment Code					
PR : Prunings					
Inspector Comment					
Landowner piling prunings at landward toe.					

Photo 1 of 2 : SP_2016_RD0017_304_77_20160408_00194.jpg



Looking east at pruning at landward toe.

LM Start	0.77	Rating **	M	Issue No.	77 (cont)
LM End	0.77	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD0017_304_77_20160408_00195.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.	2
LM End	1.08	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.902530 °	37.902530 °
				-121.325690 °	-121.325690 °
DWR ID	DWR_RD0017_02_s_2016_2				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The erosion is nearly vertical, and has developed upward to halfway of the levee slope. The protecting concrete blocks have been washed away. Animal activities are visible. [2015 Site ID:RD0017U02RM44.32]					

LM Start	1.08	Rating **	U	Issue No.	2 (cont)
LM End	1.08	Issue Type +	Ma	Location *	WS



Front view of the erosion site. Note the concrete blocks and vegetation.



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.16	Rating **	U	Issue No.	614
LM End	1.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.901291 °	37.901291 °
				-121.325534 °	-121.325534 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:45959 DS_ID:8 EP_NO: 15097 Repair Type: Urgent Crossing Status: Found UCIP Comments: 05/19/15 Hole located on landward toe is still present and covered by dense vegetation. Hole is approximately 6 feet in diameter. 02/10/10 Exposed section of levee on landward side--sink hole located at landward toe. Need to contact owner and DWR inspector to address issue. FIELD_STRUCT_DESC: 8-inch diameter irrigation pipeline through levee. Invert of pipe is 4.0 feet below levee crown. Pump house is located on the waterward slope. Siphon breaker on landward shoulder, standpipe located 10 feet from landward tee. Concrete stairs on waterward slope. (Permit No. 15097-1990) FS Date: 5/19/2015					

Photo 1 of 2 : UCIP_SP_2016_45959_74428.jpg



(2015) View of waterward side.

LM Start	1.16	Rating **	U	Issue No.	614 (cont)
LM End	1.16	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_45959_74427.jpg



(2015) Pipe visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.18	Rating **	M	Issue No.	627
LM End	1.18	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.901012 °	37.901012 °
				-121.325497 °	-121.325497 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:45449 DS_ID:9 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned. Should contact owner to determine status as signs have been removed from supports and should be replaced if still in service. FIELD_STRUCT_DESC: Underground telephone cable through levee, 2 feet below crown. Warning signs on waterward slope. FS Date: 5/19/2015					

Photo 1 of 2 : UCIP_SP_2016_45449_74105.jpg



Sign on WS slope.

LM Start	1.18	Rating **	M	Issue No.	627 (cont)
LM End	1.18	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_45449_74104.jpg



No markers on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.18	Rating **	M	Issue No.	628
LM End	1.18	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.901012 °	37.901012 °
				-121.325497 °	-121.325497 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:45450 DS_ID:308 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears Abandoned. Need to contact owner to determine status of crossing as signs have been removed from markers and should be replaced if still in service. FIELD_STRUCT_DESC: 4-inch submarine telephone cable through the levee, 2.0 feet below the crown, and across the channel. Location marker on the waterward slope. FS Date: 5/19/2015					

Photo 1 of 2 : UCIP_SP_2016_45450_74107.jpg



Sign post on WS slope.

LM Start	1.18	Rating **	M	Issue No.	628 (cont)
LM End	1.18	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_45450_74106.jpg



No markers on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.23	Rating **	M	Issue No.	629
LM End	1.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.900242 °	37.900242 °
				-121.325497 °	-121.325497 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:45451 DS_ID:10 EP_NO: 15098 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status of pipe as no record of removal has been found and only an electrical conduit was found at this location. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee. 3.3-feet below levee crown. Electrical conduit found at location. (Pump house located on waterward berm. Siphon breaker on waterward shoulder, standpipe located 10 feet from landward toe): Not found 05_19_2015 (Permit No. 15098-1989). FS Date: 5/19/2015					

Photo 1 of 2 : UCIP_SP_2016_45451_74109.jpg



View of WS slope with electrical conduit.

LM Start	1.23	Rating **	M	Issue No.	629 (cont)
LM End	1.23	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_45451_74108.jpg



View of LS. No appurtances noted.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.45	Rating **	M	Issue No.	601
LM End	1.45	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.897280 °	37.897280 °
				-121.326775 °	-121.326775 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40639 DS_ID:11 EP_NO: 15316 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status--pipe was not found only siphon breaker housing unit. FIELD_STRUCT_DESC: 8 inch diameter discharge pipeline through levee. Invert of pipe is 3.8 feet below levee crown. Siphon breaker on the waterward shoulder. Pump is located inside ditch located approximately 75 feet landward of levee toe. (Permit No. 15316-1989) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40639_38687.jpg



View of levee crown at crossing.

LM Start	1.45	Rating **	M	Issue No.	601 (cont)
LM End	1.45	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40639_38686.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	1.50	Rating **	M	Issue No.	602
LM End	1.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.896602 °	37.896602 °
				-121.327104 °	-121.327104 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40640 DS_ID:12 EP_NO: 15099 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: 16 inch diameter irrigation pipeline through levee. Invert of pipe is 3.64 feet below levee crown. Siphon breaker on waterward shoulder. Pump house located on the waterward berm. Standpipe located 15 feet from landward toe. Concrete stairway on waterward slope. (Permit No. 15099-1989) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40640_71981.jpg



View of levee crown at crossing.

LM Start	1.50	Rating **	M	Issue No.	602 (cont)
LM End	1.50	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40640_38706.jpg



Standpipe located on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	2.05	Rating **	U	Issue No.	570
LM End	2.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.889296 °	37.889296 °
				-121.328847 °	-121.328847 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42875 DS_ID:15 EP_NO: 15101 Repair Type: Urgent Crossing Status: Found UCIP Comments: Sink hole present at siphon breaker riser located on waterward shoulder. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: 16 inch diameter pipeline through levee. Invert of pipe is 4.26 feet below levee crown. Siphon breaker on waterward shoulder. Pump house located on the waterward berm, standpipe located 25 feet from landward toe. Concrete stairway on waterward slope. (Permit No. 15101-1989) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_42875_38770.jpg



View of landward side.

LM Start	2.05	Rating **	U	Issue No.	570 (cont)
LM End	2.05	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_42875_38773.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	2.23	Rating **	M	Issue No.	604
LM End	2.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.887057 °	37.887057 °
				-121.330484 °	-121.330484 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40645 DS_ID:16 EP_NO: 15102 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to coordinate with owner to determine status of crossing. FIELD_STRUCT_DESC: 20 inch diameter irrigation pipeline through levee. Invert of pipe is 2.8 feet below levee crown. Fill placed over the pipeline to provide 2.0 feet of cover. Siphon breaker on waterward shoulder. Pump on platform with walkway to shoulder, standpipe located 15 feet landward tee, concrete stairway en waterward slope. (Permit No. 15102-1990) This pipe was installed during the levee work approved under encroachment number 15014. FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40645_72002.jpg



View of levee crown at crossing.

LM Start	2.23	Rating **	M	Issue No.	604 (cont)
LM End	2.23	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40645_72001.jpg



Standpipe located on landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	2.49	Rating **	M	Issue No.	605
LM End	2.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.883427 °	37.883427 °
				-121.331189 °	-121.331189 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40646 DS_ID:17 EP_NO: 15103 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: 8 inch diameter steel irrigation pipeline through levee. Invert of pipe is 3.47 feet below crown. Siphon breaker on landward shoulder. Pump house on waterward slope, standpipe located 10 feet from landward tee. Concrete stairway on waterward slope. (Permit No. 15103-1990) This pipe was installed during the levee work approved under encroachment number 15014. FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40646_72010.jpg



View of waterward side.

LM Start	2.49	Rating **	M	Issue No.	605 (cont)
LM End	2.49	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40646_72009.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	2.67	Rating **	U	Issue No.	617
LM End	2.67	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.880923 °	37.880923 °
				-121.331857 °	-121.331857 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46003 DS_ID:278 EP_NO: 15104 Repair Type: Urgent Crossing Status: Found UCIP Comments: 05/19/15 Holes through pipe visible on waterward toe. Recommend contacting owner to confirm pipe use--good candidate for internal inspection.02/04/10 Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: 3 of 3: 8 inch diameter steel stormdrain pipe through the levee 2.85-feet below levee crown. Pump on Concrete standpipe at LS toe (Permit No. 15104-1989). This pipe was installed during the levee work approved under encroachment number 15014. FS Date: 5/19/2015					

Photo 1 of 2 : UCIP_SP_2016_46003_74448.jpg



(2015) View of landward side.

LM Start	2.67	Rating **	U	Issue No.	617 (cont)
LM End	2.67	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_46003_74449.jpg



(2015) Pipe exposed without coating indicates holes through pipe wall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	2.67	Rating **	M	Issue No.	6
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.880710 °	37.880710 °
				-121.332200 °	-121.332200 °
DWR ID	DWR_RD0017_02_s_2016_6				
Comment Code					
Inspector Comment					
06/24/2015: Levee has been cut at the mid slope and a temporary step has been made for unknow purpose. More erosion has been found at the site.					
6/19/2014: The erosion is in the river bank which has an estimated 10-ft wide berm. [2015 Site ID:RD0017U02RM45.95]					

Photo 1 of 2 : SP_2016_RD0017_304_6_20160404_00006.jpg



Front view of the erosion site. Note the new cut at the middle levee slope.

LM Start	2.67	Rating **	M	Issue No.	6 (cont)
LM End	2.69	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD0017_304_6_20160404_00007.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	2.76	Rating **	U	Issue No.	618
LM End	2.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.879604 °	37.879604 °
				-121.332109 °	-121.332109 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46004 DS_ID:19 EP_NO: 15105 Repair Type: Urgent Crossing Status: Found UCIP Comments: 05/19/15 Scour hole located immediately downstream from crossing has been filled with rip rap. Pit filled with wood debris is located immediately upstream of pipe, recommend clearing pit and repairing levee slope.02/04/10 Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: 10-inch diameter irrigation pipeline through levee. Invert of pipe is 3.84 feet below crown. Siphon breaker on landward shoulder. Pump on platform in channel. A walkway extend from the pump platform to the waterward shoulder, standpipe located 14 feet from landward toe. (Permit No. 15105-1989) FS Date: 5/19/2015					

Photo 1 of 2 : UCIP_SP_2016_46004_74453.jpg



(2015) View of waterward side--pit filled with wood debris will need to be filled and cleared.

LM Start	2.76	Rating **	U	Issue No.	618 (cont)
LM End	2.76	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_46004_74454.jpg



(2015) Waterward slope armored with rip rap.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	2.82	Rating **	M	Issue No.	8
LM End	2.82	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.878660 °	37.878660 °
				-121.332400 °	-121.332400 °
DWR ID	DWR_RD0017_02_s_2016_8				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed. 06/19/2014: A pocket erosion was found during the boat survey. [2015 Site ID:RD0017U02RM46.1]					

Photo 1 of 2 : SP_2016_RD0017_304_8_20160404_00008.jpg



Front view of the erosion.

LM Start	2.82	Rating **	M	Issue No.	8 (cont)
LM End	2.82	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD0017_304_8_20160404_00009.jpg



Close view of the erosion. The slope protection is poor.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	3.00	Rating **	M	Issue No.	579
LM End	3.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.876317 °	37.876317 °
				-121.331447 °	-121.331447 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40655 DS_ID:20 EP_NO: 15106 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Burrow activity dession on landward slope. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: 10 inch diameter irrigation pipeline through levee. Invert of pipe is 4.1 feet below levee crown. Siphon breaker on landward shoulder. Pump on waterward slope, standpipe located 14 feet landward of levee toe. (Permit No. 15106-1989) This pipe was installed during the levee work approved under encroachment number 15014. FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40655_72050.jpg



View of waterward side.

LM Start	3.00	Rating **	M	Issue No.	579 (cont)
LM End	3.00	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40655_72051.jpg



Pump station and control panel located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	3.16	Rating **	M	Issue No.	619
LM End	3.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.874160 °	37.874160 °
				-121.331761 °	-121.331761 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46005 DS_ID:21 EP_NO: 15310 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/19/15 Deteriorated section of pipe has been replaced. Need to contact KSN, engineering consulting representing LMA, to determine repair details and to obtain permit authorizing repair.02/04/10 Pipe wall deteriorated. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: 10 inch discharge pipeline through levee. The invert of the pipe is 3.78 feet below crown. Siphon breaker on landward shoulder. Pump located on the landward side approximately 45 feet from the levee toe. (Permit No. 15310-1989) This pipe was installed during the levee work approved under encroachment number 15014. FS Date: 5/19/2015					

LM Start	3.16	Rating **	M	Issue No.	619 (cont)
LM End	3.16	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_46005_74456.jpg



(2015) View of waterward side.

Photo 2 of 2 : UCIP_SP_2016_46005_74458.jpg



(2015) Pipe section replaced.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	3.47	Rating **	M	Issue No.	580
LM End	3.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.870623 °	37.870623 °
				-121.328775 °	-121.328775 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40658 DS_ID:23 EP_NO: 4116 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition. FIELD_STRUCT_DESC: 8 inch diameter high pressure gas main through the levee. Invert of pipe is 3.9 feet below the crown. Location sign for gas pipeline crossing on waterward slope. (Permit No. 4116-1962) PG&E contact information 510-779-4830 for crossing. FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40658_72112.jpg



View of levee crown at crossing.

LM Start	3.47	Rating **	M	Issue No.	580 (cont)
LM End	3.47	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40658_72111.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	3.63	Rating **	M	Issue No.	581
LM End	3.63	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.868657 °	37.868657 °
				-121.327383 °	-121.327383 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40659 DS_ID:26 EP_NO: 15109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion around siphon breaker on landward side recommend investigating potential leak. FIELD_STRUCT_DESC: 12 inch pipeline through levee. Invert of pipe is 4.0 feet below levee crown. Siphon breaker on landward shoulder. Pump in irrigation ditch 45 feet from landward toe. (Permit No. 15109-1990) FS Date: 2/4/2010					

LM Start	3.63	Rating **	M	Issue No.	581 (cont)
LM End	3.63	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_40659_72116.jpg



View of pipe section and pump station located on landward side.

Photo 2 of 2 : UCIP_SP_2016_40659_72115.jpg



Pump station locate on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	3.63	Rating **	M	Issue No.	10
LM End	3.63	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.868500 °	37.868500 °
				-121.327670 °	-121.327670 °
DWR ID	DWR_RD0017_02_s_2016_10				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed. 06/19/2014: The erosion is near a large tree and probably has been caused by the irrigation pipe on the site. [2015 Site ID:RD0017U02RM46.89]					



Front view of the erosion. Note the tree and the irrigation pipe.

LM Start	3.63	Rating **	M	Issue No.	10 (cont)
LM End	3.63	Issue Type +	Ma	Location *	WS



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	3.73	Rating **	M	Issue No.	582
LM End	3.73	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.867247 °	37.867247 °
				-121.326724 °	-121.326724 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40660 DS_ID:27 EP_NO: 15110 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. FIELD_STRUCT_DESC: 12 inch diameter irrigation pipeline through levee. Invert of pipe is 3.88 below levee crown. Siphon breaker on landward shoulder. Pump on landward slope, standpipe located 10 feet from the landward toe stairway. (Permit No. 15110-1989) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40660_72120.jpg



View of levee crown at crossing.

LM Start	3.73	Rating **	M	Issue No.	582 (cont)
LM End	3.73	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_40660_72119.jpg



Seepage berm located on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	4.19	Rating **	A/W	Issue No.	48
LM End	4.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.863819 °	37.863601 °
				-121.320784 °	-121.320299 °
DWR ID	DWR_RD0017_02_s_2012_48				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 3 : SP_2016_RD0017_304_48_20160404_00014.jpg



Looking southeast at dense ground cover on landside slope. (Spring 2013)

LM Start	4.19	Rating **	A/W	Issue No.	48 (cont)
LM End	4.22	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2016_RD0017_304_48_20160404_00015.jpg



Looking southeast at overgrown landscaping on landside slope. (Spring 2014)

LM Start	4.19	Rating **	A/W	Issue No.	48 (cont)
LM End	4.22	Issue Type +	En	Location *	LS

Photo 3 of 3 : SP_2016_RD0017_304_48_20160404_00016.jpg



Looking east at overgrown landscaping on landside slope. (Spring 2014)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	4.21	Rating **	M	Issue No.	587
LM End	4.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.863644 °	37.863644 °
				-121.320435 °	-121.320435 °
DWR ID					

Comment Code					

Inspector Comment					
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FS_ID:43264
 DS_ID:28
 EP_NO: 15111
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 2/4/15--Olivia 2010 Records from KSN show this crossing was removed based on the RD17 As-Built Pipe Crossing Stationing Reference, however when field verification was completed in this area a 2-inch pipe was found. This could be a different 2-inch pipe in nearby area. Need to coordinate with owner to determine permit issued for this crossing. 2/4/10 Pipe is not continuous. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.
 FIELD_STRUCT_DESC: 2 inch pipeline through levee. Invert of pipeline is 3.92 feet below levee crown. Siphon breaker on landward shoulder. Pump on waterward slope. Pipe extends beyond 10 feet of the landward toe. (Permit No. 15111-1990). This pipe was installed during the levee work approved under encroachment number 15014.
 FS Date: 2/4/2010

LM Start	4.21	Rating **	M	Issue No.	587 (cont)
LM End	4.21	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_43264_72125.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_SP_2016_43264_72124.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	4.31	Rating **	M	Issue No.	584
LM End	4.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.862383 °	37.862383 °
				-121.319797 °	-121.319797 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40376 DS_ID:801 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to confirm if conduit goes through levee. Need to contact owner to obtain additional information about crossing and status. FIELD_STRUCT_DESC: 2.5 inch conduit visible on landward side. FS Date: 2/25/2010					

No Photos

LM Start	4.37	Rating **	M	Issue No.	1
LM End	4.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.861673 °	37.861370 °
				-121.320115 °	-121.320102 °
DWR ID	DWR_RD0017_02_s_2012_1				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleander along fence line.					

Photo 1 of 3 : SP_2016_RD0017_304_1_20160404_00001.jpg



Looking southeast at ground cover on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	4.37	Rating **	M	Issue No.	1 (cont)
LM End	4.39	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.861673 °	37.861370 °	
			-121.320115 °	-121.320102 °	
DWR ID	DWR_RD0017_02_s_2012_1				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleander along fence line.					

LM Start	4.37	Rating **	M	Issue No.	1 (cont)
LM End	4.39	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2016_RD0017_304_1_20160404_00002.jpg



Looking south at overgrown oleanders on landside shoulder. (Spring 2014)

Photo 3 of 3 : SP_2016_RD0017_304_1_20160404_00003.jpg



Looking southwest at landscaping and boat dock on waterside slope and channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	4.95	Rating **	U	Issue No.	569
LM End	4.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.855356 °	37.855356 °
				-121.319849 °	-121.319849 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42878 DS_ID:34 EP_NO: 15117 Repair Type: Urgent Crossing Status: Found UCIP Comments: Section of landward slope exposed--Need to contact owner to address cut on levee and determine status of crossing. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 10 inch diameter pipeline through levee. Invert of pipe is 4.26 feet below levee crown. Siphon breaker on waterward shoulder. Pump located in excess of 100 feet from the landward toe. Ramp on landward slope. (Permit No. 15117-1989) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_42878_72215.jpg



View of landward side.

LM Start	4.95	Rating **	U	Issue No.	569 (cont)
LM End	4.95	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_42878_72214.jpg



Section of levee slope exposed on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	4.98	Rating **	U	Issue No.	78
LM End	5.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.854875 °	37.853192 °	
			-121.319542 °	-121.320200 °	
DWR ID	DWR_RD0017_02_s_2016_78				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 3 : SP_2016_RD0017_304_78_20160408_00196.jpg



Looking north at rodent holes on landward slope.

LM Start	4.98	Rating **	U	Issue No.	78 (cont)
LM End	5.12	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2016_RD0017_304_78_20160408_00197.jpg



LM Start	4.98	Rating **	U	Issue No.	78 (cont)
LM End	5.12	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP_2016_RD0017_304_78_20160408_00198.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	5.07	Rating **	M	Issue No.	616
LM End	5.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.853613 °	37.853613 °
				-121.319666 °	-121.319666 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45998
 DS_ID:35
 EP_NO: 15118
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 05/19/2015 Erosion is still present on waterward side-- wet soil along pipe alignment (where pipe section is exposed). Burrow activity is also present at this location. Recommend contacting owner to address burrow activity. 02/04/2010 Erosion visible on waterward side visible at pipe daylight. Need to contact owner to address potential pipe failure. Need to determine status of crossing.
 FIELD_STRUCT_DESC: 14 inch diameter irrigation pipeline through levee. Invert of pipe is 4.49 feet below levee crown. Siphon breaker on landward shoulder. Pump on platform in channel, wooden walkway extends from pump platform to waterward slope, concrete stairway extends from walkway to waterward shoulder and a standpipe is located 2 feet from the landward toe. (Permit No. 15118-1989)
 FS Date: 5/19/2015

LM Start	5.07	Rating **	M	Issue No.	616 (cont)
LM End	5.07	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_SP_2016_45998_74483.jpg



(2015) View of waterward side--erosion at pipe daylight.

Photo 2 of 2 : UCIP_SP_2016_45998_74485.jpg



(2015) Wet ground along pipe alignment on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	5.41	Rating **	M	Issue No.	585
LM End	5.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.851319 °	37.851319 °
				-121.321336 °	-121.321336 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40669 DS_ID:36 EP_NO: 15119 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status. FIELD_STRUCT_DESC: 16 inch diameter pipe through levee. Invert of pipe is 5.11 feet below levee crown. Slant pump on riverbank, standpipe located 30 feet from the landward toe. Ramp on waterward slope. (Permit No. 15119-1990). This pipe was installed during the levee work approved under encroachment number 15014. FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40669_72239.jpg



Overview of levee crown at crossing.

LM Start	5.41	Rating **	M	Issue No.	585 (cont)
LM End	5.41	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40669_72238.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	5.48	Rating **	A/W	Issue No.	568
LM End	5.48	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.850652 °	37.850652 °	
			-121.320498 °	-121.320498 °	
DWR ID	DWR_RD0017_02_s_2012_568				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.52	Rating **	A/W	Issue No.	76
LM End	5.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.850118 °	37.850118 °	
			-121.320188 °	-121.320188 °	
DWR ID	DWR_RD0017_02_s_2012_76				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes has been backfilled, but should be monitored.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	6.14	Rating **	M	Issue No.	586
LM End	6.14	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.844392 °	37.844392 °
				-121.320753 °	-121.320753 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40672 DS_ID:38 EP_NO: 15121 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe section at waterward toe is missing wall. Need to coordinate with owner to determine integrity of pipe section through levee. This crossing is a good candidate for video inspection to determine internal condition of pipe. FIELD_STRUCT_DESC: 2 of 2. 10 inch steel stormdrain through the levee 4.0-feet below crown. (Permit No. 15121-1991) This pipe was installed during the levee work approved under encroachment number 15014. FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40672_72270.jpg



View of pipe section on waterward side.

LM Start	6.14	Rating **	M	Issue No.	586 (cont)
LM End	6.14	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40672_72267.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	7.20	Rating **	M	Issue No.	591 (cont)
LM End	7.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.833088 °	37.833088 °
				-121.312676 °	-121.312676 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40680 DS_ID:43 EP_NO: 15078 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 4 inch diameter pipeline through levee. Invert of pipe is 3.22 feet below levee crown. Siphon breaker on landward shoulder. Pump on waterward berm. (Permit No. 15078-1989) FS Date: 2/4/2010					

Photo 2 of 2 : UCIP_SP_2016_40680_72313.jpg



Abandoned boat protecting pump station located on waterward side.

LM Start	7.25	Rating **	M	Issue No.	18
LM End	7.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.832612 °	37.832612 °
				-121.312093 °	-121.312093 °
DWR ID	DWR_RD0017_02_s_2013_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	7.44	Rating **	M	Issue No.	593 (cont)
LM End	7.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.830115 °	37.830115 °
				-121.310908 °	-121.310908 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40682 DS_ID:99 EP_NO: 17643 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to coordinate with owner to determine when the other 3 crossings will become online. FIELD_STRUCT_DESC: 36-inch steel lined and coated stormdrain pipe through the levee 2-feet below the crown. Concrete headwall on WS toe and a tidal flex valve on outlet of pipe. Structure was designed for 4 crossings however only 1 crossing is active (Permit No. 17643, 2005). FS Date: 2/4/2010					

Photo 2 of 2 : UCIP_SP_2016_40682_72321.jpg



Relief valve located on landward shoulder.

LM Start	7.45	Rating **	M	Issue No.	594
LM End	7.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.829922 °	37.829922 °
				-121.310865 °	-121.310865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40683 DS_ID:284 EP_NO: 15079 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Potential leak at standpipe--unable to confirm if crossing is operable. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use. FIELD_STRUCT_DESC: 2 of 2. 10 inch pipe also referenced as 478+22, old 6 inch pipe was removed per encroachment recordation. FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40683_72333.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	7.57	Rating **	M	Issue No.	595 (cont)
LM End	7.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.828258 °	37.828258 °
				-121.310003 °	-121.310003 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40684 DS_ID:97 EP_NO: 15080 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears no longer in use. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use. FIELD_STRUCT_DESC: 6 inch steel irrigation pipe through the levee at 4.43-feet below crown. Pump on WS slope, siphon breaker on WS shoulder, and standpipe on LS toe (Permit No. 15080-1989). FS Date: 2/4/2010					

Photo 2 of 2 : UCIP_SP_2016_40684_72342.jpg



View of waterward side.

LM Start	7.58	Rating **	M	Issue No.	25
LM End	7.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.828095 °	37.827920 °
				-121.309945 °	-121.309847 °
DWR ID	DWR_RD0017_02_s_2012_25				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0017_304_25_20160404_00013.jpg



Elderberry blocking view of landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	7.71	Rating **	M	Issue No.	596
LM End	7.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.826333 °	37.826333 °
				-121.309495 °	-121.309495 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40685 DS_ID:98 EP_NO: 15081 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion present on waterward toe underneath piles. Need to coordinate with owner to address issue on waterward side and to determine status of crossing. FIELD_STRUCT_DESC: 16 inch diameter asphalt coated and wrapped steel irrigaiton pipe through the levee 2.6-feet below the crown. Siphon breaker located on landward side. Stand pipe located at landward toe. Pump on Platform at WS toe Permit No. 15081, 1989. FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40685_72351.jpg



Overview of levee crown at pipe crossing.

LM Start	7.71	Rating **	M	Issue No.	596 (cont)
LM End	7.71	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40685_72350.jpg



Pipe daylight on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	7.75	Rating **	M	Issue No.	598
LM End	7.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825857 °	37.825857 °
				-121.309574 °	-121.309574 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40687 DS_ID:100 EP_NO: 15082 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pumps were removed and no power connection visible. Crossing appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use. FIELD_STRUCT_DESC: 1 of 2. 20 inch asphalt coated and wrapped steel irrigation pipe through levee 2.1-feet below the crown. Pump missing from platform on waterward side. Siphon breaker inside 24-inch CMP riser on LS shoulder (Permit No. 15082, 1982). FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40687_72357.jpg



View of waterward side.

LM Start	7.75	Rating **	M	Issue No.	598 (cont)
LM End	7.75	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40687_72356.jpg



View of waterward side--no pumps present anymore.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	7.75	Rating **	M	Issue No.	599
LM End	7.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825828 °	37.825828 °
				-121.309569 °	-121.309569 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40688 DS_ID:288 EP_NO: 15082 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump was removed and no power connection visible. Crossing appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use. FIELD_STRUCT_DESC: 2 of 2. 16- inch asphalt coated and wrapped steel irrigation pipe through levee 2.6-feet below the crown. Pump missing from platform on waterward side. Siphon breaker inside 24-inch CMP riser on LS shoulder. 1.5-inch galvanized iron electrical conduit at same location (Permit No. 15082, 1982). FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40688_72361.jpg



View of pipe on waterward side.

LM Start	7.75	Rating **	M	Issue No.	599 (cont)
LM End	7.75	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40688_72360.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	7.89	Rating **	M	Issue No.	600
LM End	7.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.823987 °	37.823987 °
				-121.309841 °	-121.309841 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40689 DS_ID:805 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only siphon breakers were found on landward shoulder no other appurtenances were found. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use. FIELD_STRUCT_DESC: Siphon breaker located on landward shoulder. FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40689_72367.jpg



View of levee crown at crossing.

LM Start	7.89	Rating **	M	Issue No.	600 (cont)
LM End	7.89	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40689_72366.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	8.93	Rating **	M	Issue No.	81
LM End	8.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.818792 °	37.818792 °	
			-121.314824 °	-121.314824 °	
DWR ID	DWR_RD0017_02_s_2016_81				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	8.99	Rating **	U	Issue No.	621
LM End	8.99	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.818123 °	37.818123 °	
			-121.314272 °	-121.314272 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46008 DS_ID:285 EP_NO: 15083 Repair Type: Urgent Crossing Status: Found UCIP Comments: 05/21/2015 Pipe is still in same condition. Need to contact KSN, LMA engineering firm, to determine update on crossing.02/04/2010 Pipe wall has corroded through--wall missing from pipe section located on waterward side. Recommend investigating the pipe integrity through levee section. Damage to pipe has eroded the levee slope on waterward side. Recommend LMA superintendent contact owner to stop using crossing and coordinate with CVFPB to address pipe leak. Owner will need to coordinate with DWR inspector and CVFPB. FIELD_STRUCT_DESC: 2 of 2. 12-inch irrigation pipe through levee. Invert of pipe is 3.69 feet below crown. Siphon breaker on landward shoulder. Pump in irrigation ditch 50 feet from landward tee. (Permit No. 15083-1989) FS Date: 5/21/2015					

Photo 1 of 2 : UCIP_SP_2016_46008_74471.jpg



(2015) View of waterward side--only 1 pipe section was replaced (1 of 2 and not 2 of 2)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	9.09	Rating **	M	Issue No.	630
LM End	9.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.816767 °	37.816767 °
				-121.314681 °	-121.314681 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:45453 DS_ID:48 EP_NO: 15084 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine disposition of pipe. No record of removal has been found and status of crossing needs to be determined. FIELD_STRUCT_DESC: 8 inch diameter pipe through levee. Invert of pipe is 3.47 feet below levee crown. (Siphon breaker on landward shoulder. Slant pump on waterward slope, concrete stairway from pump to waterward shoulder, standpipe located 20 feet from the landward toe): Not found. Only indicator is a 1.5-inch PVC electrical conduit visible on WS slope 6-feet below the crown. (Permit No. 15084-1989) FS Date: 5/21/2015					

Photo 1 of 2 : UCIP_SP_2016_45453_74112.jpg



Electrical conduit only appurtenance found on WS slope.

LM Start	9.09	Rating **	M	Issue No.	630 (cont)
LM End	9.09	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_45453_74113.jpg



1.5-inch electrical conduit only appurtenance still visible on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	9.29	Rating **	U	Issue No.	9
LM End	9.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.815270 °	37.815270 °	
			-121.317692 °	-121.317692 °	
DWR ID	DWR_RD0017_02_s_2012_9				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry at landside toe.					

Photo 1 of 1 : SP_2016_RD0017_304_9_20160404_00010.jpg



Looking east at bamboo at landward toe.

LM Start	10.64	Rating **	M	Issue No.	80
LM End	10.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.805787 °	37.805787 °	
			-121.322022 °	-121.322022 °	
DWR ID	DWR_RD0017_02_s_2015_80				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	11.31	Rating **	M	Issue No.	606
LM End	11.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.803410 °	37.803410 °
				-121.312031 °	-121.312031 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40695 DS_ID:51 EP_NO: 15055 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe is not connected on waterward side. Crossing is non-functional recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 16 inch diameter pipe through levee. Invert pipe is 3.91 feet below levee crown. Siphon breaker on landward shoulder. Slant pump on waterward slope, standpipe located 11 feet from the landward toe. (Permit No. 15055-1989) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40695_72420.jpg



Overview of levee crown at crossing.

LM Start	11.31	Rating **	M	Issue No.	606 (cont)
LM End	11.31	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40695_72418.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	11.35	Rating **	M	Issue No.	607
LM End	11.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802921 °	37.802921 °
				-121.311947 °	-121.311947 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40696 DS_ID:103 EP_NO: 17792 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on waterward slope--Need to contact owner. FIELD_STRUCT_DESC: 1 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40696_72440.jpg



Overview of levee crown at crossing.

LM Start	11.35	Rating **	M	Issue No.	607 (cont)
LM End	11.35	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40696_72448.jpg



View of waterward side geotech fabric damage along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	11.35	Rating **	M	Issue No.	608
LM End	11.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802904 °	37.802904 °
				-121.311946 °	-121.311946 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40697 DS_ID:473 EP_NO: 17792 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on waterward slope--need to contact owner. FIELD_STRUCT_DESC: 2 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40697_72452.jpg



Overview of levee crown at crossings.

LM Start	11.35	Rating **	M	Issue No.	608 (cont)
LM End	11.35	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40697_72453.jpg



Geotech fabric damage along waterward berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	11.35	Rating **	M	Issue No.	610
LM End	11.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802869 °	37.802869 °
				-121.311948 °	-121.311948 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40699 DS_ID:475 EP_NO: 17792 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on waterward slope--need to contact owner. FIELD_STRUCT_DESC: 4 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40699_72458.jpg



City of Lathrop Stormwater Pump Station 112.

LM Start	11.35	Rating **	M	Issue No.	610 (cont)
LM End	11.35	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40699_72457.jpg



View of landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	11.35	Rating **	M	Issue No.	611
LM End	11.35	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.802854 °	37.802854 °	
			-121.311948 °	-121.311948 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40700 DS_ID:476 EP_NO: 17792 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on waterward slope--need to contact owner. FIELD_STRUCT_DESC: 5 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40700_72462.jpg



Overview of levee crown at crossings.

LM Start	11.35	Rating **	M	Issue No.	611 (cont)
LM End	11.35	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_40700_72467.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	11.43	Rating **	M	Issue No.	624
LM End	11.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.801683 °	37.801683 °
				-121.312001 °	-121.312001 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:45463 DS_ID:53 EP_NO: 15125 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Pipe appears abandoned as vent is partially burried and pipe not visilbe. If abandoned, it should be done so properly. FIELD_STRUCT_DESC: 7 inch diameter pipe through the levee 3.59-feet below levee crown. Siphon breaker located on landward shoulder. Air vent found on WS slope (Permit No. 15125-1989). FS Date: 5/21/2015					

Photo 1 of 2 : UCIP_SP_2016_45463_74122.jpg



Vent visible on WS slope. Found partially burried.

LM Start	11.43	Rating **	M	Issue No.	624 (cont)
LM End	11.43	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_45463_74121.jpg



Vent visible on WS slope. Found partially burried.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	12.41	Rating **	M	Issue No.	572 (cont)
LM End	12.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.789976 °	37.789976 °
				-121.306853 °	-121.306853 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40706 DS_ID:807 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe disconnected on waterward side. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. FIELD_STRUCT_DESC: 8 inch pipe through levee 3.2-feet below the crown. Pump on WS toe and a siphon breaker on the LS shoulder (Permit No. 15049, 1989). Permit was for 6-inch pipe. FS Date: 2/4/2010					

Photo 2 of 2 : UCIP_SP_2016_40706_72511.jpg



View of waterward toe--rip rap along pipe alignment.

LM Start	12.55	Rating **	M	Issue No.	573
LM End	12.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.787929 °	37.787929 °
				-121.307173 °	-121.307173 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40707 DS_ID:60 EP_NO: 14326 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Wires exposed near levee crown unable to determine if these wires are part of the crossing. Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 4 inch diameter communication cable through levee. Invert of conduit is 3.0 feet below levee crown. (Permit No. 14326-1986) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40707_72515.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	13.26	Rating **	M	Issue No.	574 (cont)
LM End	13.26	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779653 °	37.779653 °
				-121.300064 °	-121.300064 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40712 DS_ID:65 EP_NO: 14450 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 1 of 2: 18 inch diameter drainage discharge pipes through levee. (Permit No. 14450-1985) FS Date: 2/4/2010					

Photo 2 of 2 : UCIP_SP_2016_40712_72528.jpg



Pipe section exposed on landward side.

LM Start	13.26	Rating **	M	Issue No.	575
LM End	13.26	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779643 °	37.779643 °
				-121.300057 °	-121.300057 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40713 DS_ID:287 EP_NO: 14450 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 2 of 2: 18 inch diameter drainage discharge pipes through levee. (Permit No. 14450-1985) FS Date: 2/4/2010					

Photo 1 of 2 : UCIP_SP_2016_40713_72534.jpg



Precast concrete box located on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	13.28	Rating **	M	Issue No.	577 (cont)
LM End	13.28	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.779470 °	37.779470 °	
			-121.299954 °	-121.299954 °	
DWR ID					
Comment Code					
Inspector Comment					
<p>FS_ID:40715 DS_ID:809 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No information was obtained from desk study. This crossing was found during field visit. Need to contact owner to obtain additional details about crossing (installation date and permit) and status. FIELD_STRUCT_DESC: *ABANDONED* 18-inch pipe through the levee, 5.8 feet below the crown. Gate valve and siphon breaker on the waterward slope. Flap gate on the waterward end. One CM cutoff wall (Reclamation District No. 17 Drainage Plant). Pump on the landward side. Installed by USCE 1961. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.36). (USACE O&M, 1963). Welded Steel plate installed over one end of pipe under Permit No. 14450, 1988. FS Date: 2/4/2010</p>					

Photo 2 of 2 : UCIP_SP_2016_40715_72551.jpg



View of waterward side, photo 1 of 2.

LM Start	14.20	Rating **	M	Issue No.	578
LM End	14.20	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.772267 °	37.772267 °	
			-121.290202 °	-121.290202 °	
DWR ID					
Comment Code					
Inspector Comment					
<p>FS_ID:40716 DS_ID:69 EP_NO: 15165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump was working during the survey. Levee toe erosion at waterward side. Recommend contacting owner to determine status and to evaluate erosion at waterward toe. FIELD_STRUCT_DESC: 20-inch pipe through the levee, 1.7-feet below the crown. Pump on pile structure in the stream. Wooden walkway to the pump. concrete distribution box at the toe of the landward slope. (Permit No. 15165-1989) FS Date: 2/4/2010</p>					

Photo 1 of 2 : UCIP_SP_2016_40716_72557.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	14.20	Rating **	M	Issue No.	578 (cont)
LM End	14.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.772267 °	37.772267 °
				-121.290202 °	-121.290202 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40716 DS_ID:69 EP_NO: 15165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump was working during the survey. Levee toe erosion at waterward side. Recommend contacting owner to determine status and to evaluate erosion at waterward toe. FIELD_STRUCT_DESC: 20-inch pipe through the levee, 1.7-feet below the crown. Pump on pile structure in the stream. Wooden walkway to the pump. concrete distribution box at the toe of the landward slope. (Permit No. 15165-1989) FS Date: 2/4/2010					

Photo 2 of 2 : UCIP_SP_2016_40716_72556.jpg



Pipe operable during survey.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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